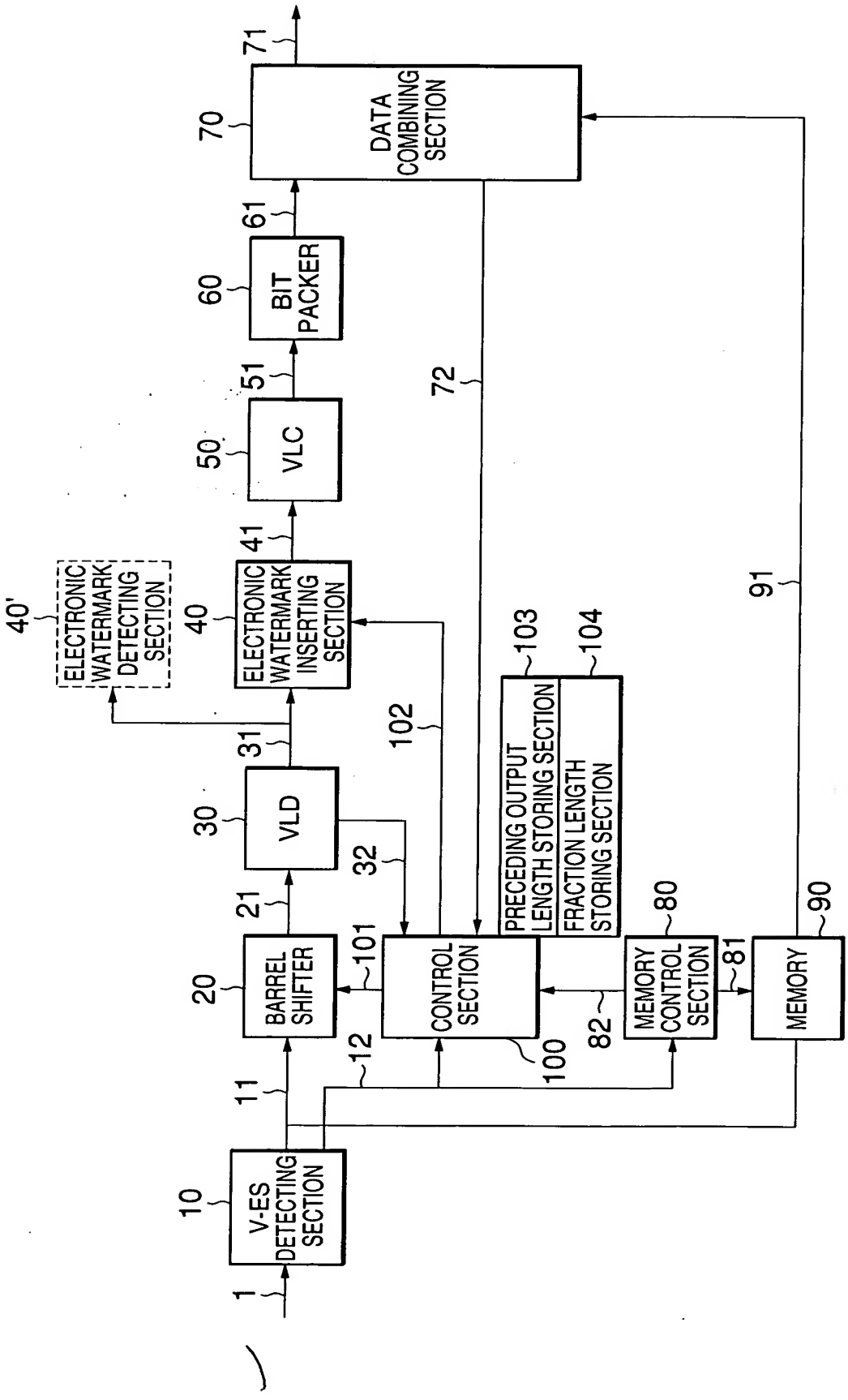

1
10
V-ES DETECTING SECTION
11
12
20
BARREL SHIFTER
21
30
VLD
31
32
40'
ELECTRONIC WATERMARK DETECTING SECTION
40
ELECTRONIC WATERMARK INSERTING SECTION
41
50
VLC
51
60
BIT PACKER
61
70
DATA COMBINING SECTION
71
72
91
100
101
102
103
PRECEDING OUTPUT LENGTH STORING SECTION
104
FRACTION LENGTH STORING SECTION
CONTROL SECTION
80
MEMORY CONTROL SECTION
81
82
90
MEMORY

FIG.1

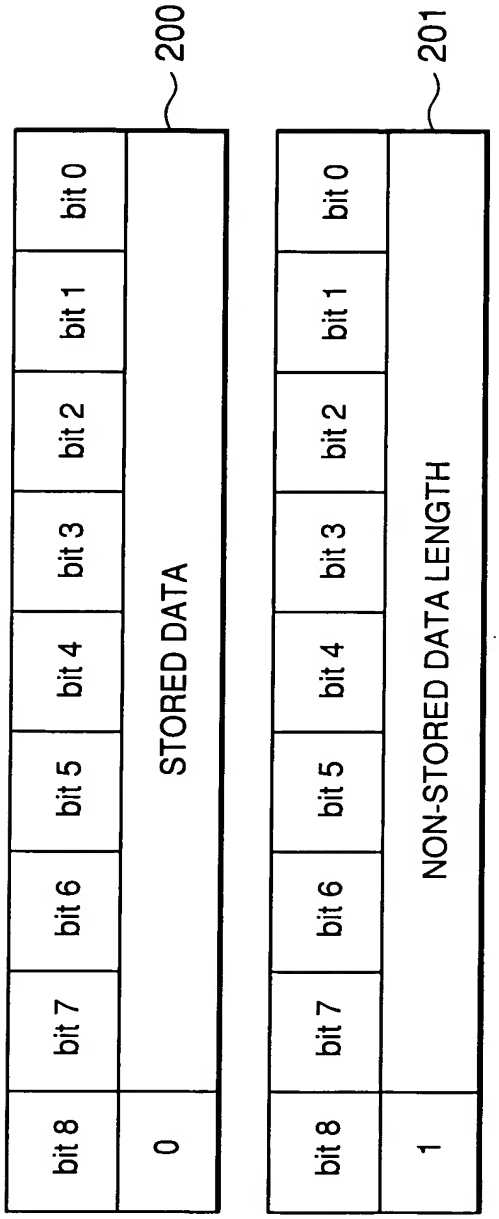
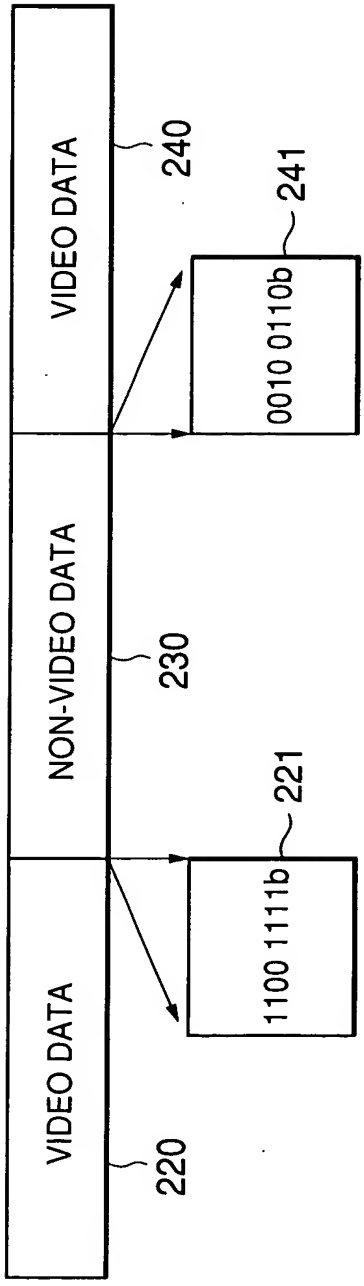

200
bit 8
bit 7
bit 6
bit 5
bit 4
bit 3
bit 2
bit 1
bit 0
0
STORED DATA
201
bit 8
bit 7
bit 6
bit 5
bit 4
bit 3
bit 2
bit 1
bit 0
1
NON-STORED DATA LENGTH

FIG.2



1100b -------- Run 0 / Level 2 ~250

1111 0010b ---- Run 1 / Level 3 ~251

0110b -------- EOB(END OF BLOCK) ~252

FIG.3

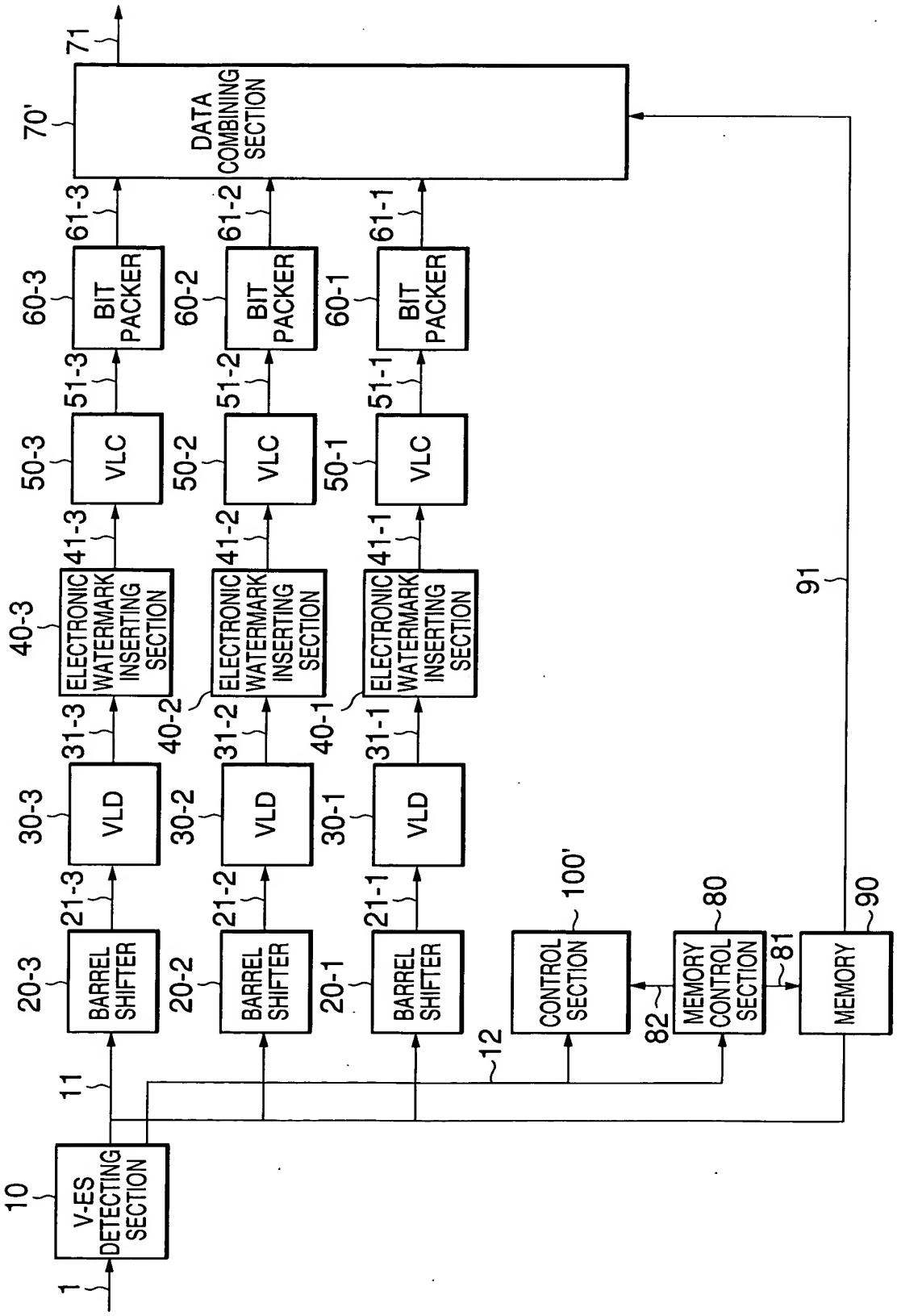

1
10
V-ES DETECTING SECTION
11
12
20-3
BARREL SHIFTER
20-2
BARREL SHIFTER
20-1
BARREL SHIFTER
21-3
21-2
21-1
30-3
VLD
30-2
VLD
30-1
VLD
31-3
31-2
31-1
40-3
ELECTRONIC WATERMARK INSERTING SECTION
40-2
ELECTRONIC WATERMARK INSERTING SECTION
40-1
ELECTRONIC WATERMARK INSERTING SECTION
41-3
41-2
41-1
50-3
VLC
50-2
VLC
50-1
VLC
51-3
51-2
51-1
60-3
BIT PACKER
60-2
BIT PACKER
60-1
BIT PACKER
61-3
61-2
61-1
70'
DATA COMBINING SECTION
71
100'
CONTROL SECTION
82
MEMORY CONTROL SECTION
80
81
MEMORY
90
91

FIG.4

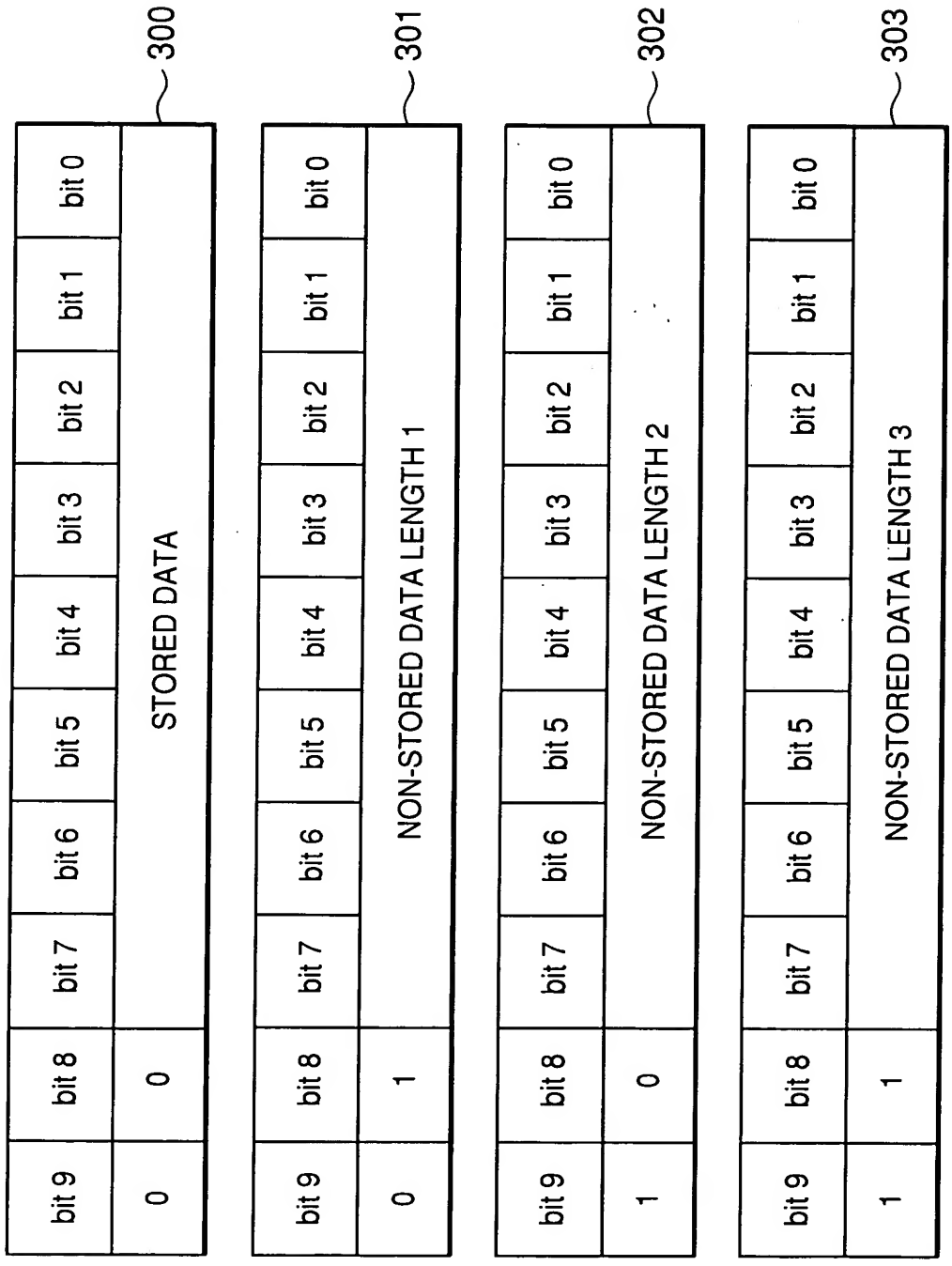

300
bit 9
bit 8
bit 7
bit 6
bit 5
bit 4
bit 3
bit 2
bit 1
bit 0
0
0
STORED DATA
301
bit 9
bit 8
bit 7
bit 6
bit 5
bit 4
bit 3
bit 2
bit 1
bit 0
0
1
NON-STORED DATA LENGTH 1
302
bit 9
bit 8
bit 7
bit 6
bit 5
bit 4
bit 3
bit 2
bit 1
bit 0
1
0
NON-STORED DATA LENGTH 2
303
bit 9
bit 8
bit 7
bit 6
bit 5
bit 4
bit 3
bit 2
bit 1
bit 0
1
1
NON-STORED DATA LENGTH 3

FIG.5